

Effects of bovine lactoferrin to oral candida albicans and candida glabrata isolates recovered from the saliva in elderly people

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20409259&lokasi=lokal>

Abstrak

The effects of bovine lactoferrin (bLF) on the growth of *Candida* species and on inflammatory cytokine production in gingival keratinocytes, NDUSD-1 co-cultured with *Candida* strains were investigated. The results showed that bLF at 10 and 100 $\mu\text{g}/\text{mL}$ significantly inhibits the growth of two *C. albicans* strains and two *C. glabrata* strains isolated from the saliva of elderly people requiring nursing care, respectively. The levels of inflammatory cytokines, interleukin (IL)-6, and IL-8 in NDUSD-1 co-cultured with each of these four *Candida* strains were measured. *C. albicans* tend to have a more potent capacity than *C. glabrata* to induce the production of the inflammatory cytokines in NDUSD-1. The levels of IL-6 and IL-8 in NDUSD-1 co-cultured with each of *Candida* species were measured after addition of bLF. bLF at concentrations from 1 to 100 $\mu\text{g}/\text{mL}$ significantly inhibited the production of these cytokines in NDUSD-1 co-cultured with *Candida* species. These findings suggest that bLF may be useful in reducing the risk of aspiration pneumonia among elderly people requiring care for whom oral care is difficult.